QUALYS SECURITY CONFERENCE 2020

# Industry Control Systems
## Making ICS/OT a Part of Overall Vulnerability Management Program

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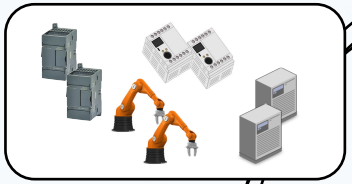
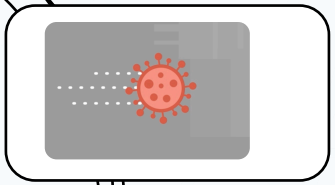
# Industrial Control Systems

Are becoming internet-aware

1. ICS SYSTEMS



2. ARE GETTING TARGETED



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3. ATTACKS CAN BE PREVENTED

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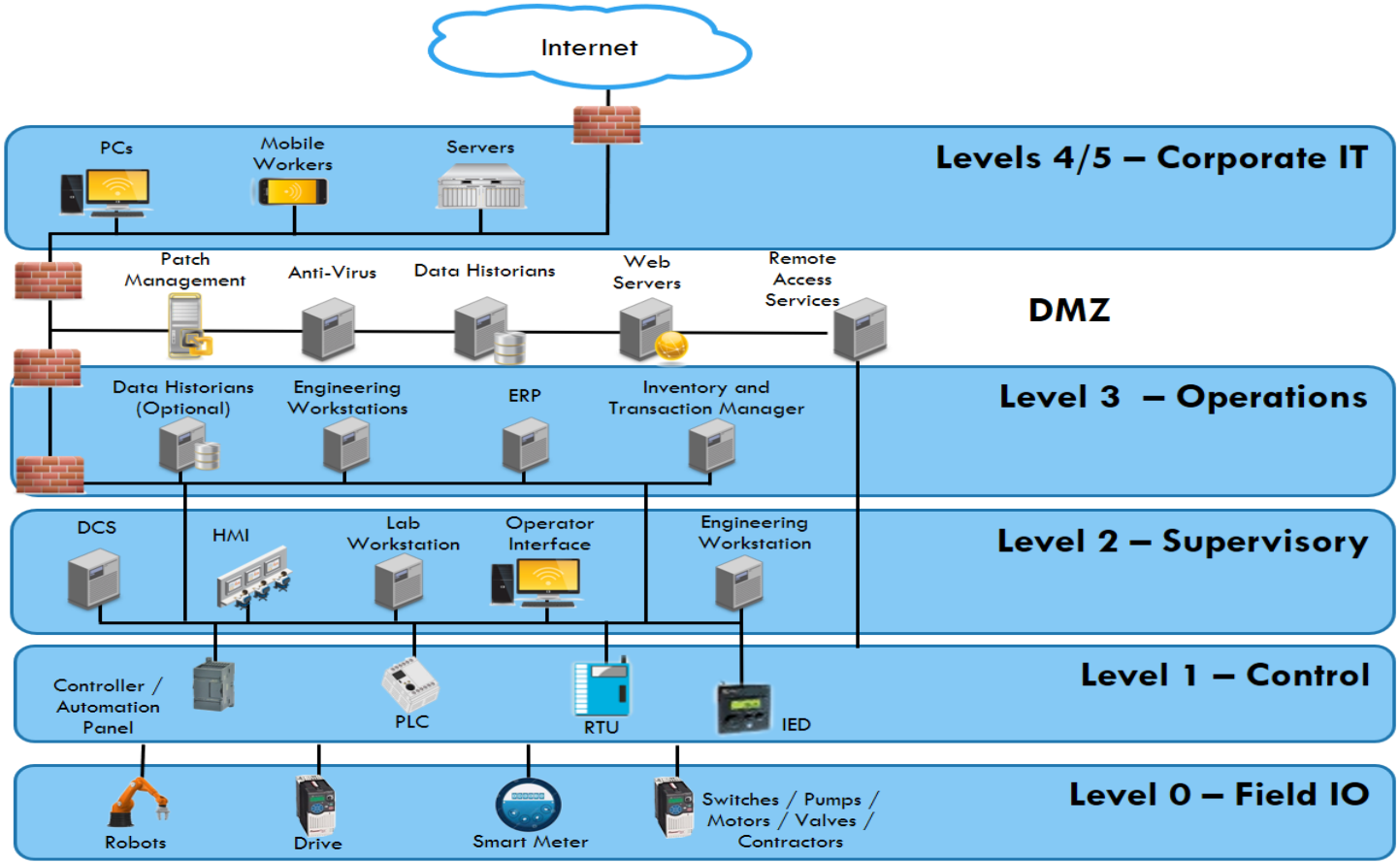
# Typical Industrial Control Networks

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# Qualys Industrial Control Security v1.0

## Use cases

**Visibility**
- Inventory
- Network Topology

**Vulnerability Management**

## Technology

**Passive Sensor**

- ✓ Mirror Port
- ✓ 100% Passive

**Qualys Scanner**

- ✓ Safe Active Probes
- ✓ ICS Scan Types
- ✓ Granular Controls

**Cloud Agent**

- ✓ SCADA Serves / ERP Systems / HMI Servers
- ✓ All Industrial PCs

**Vulnerability Signatures**

Rockwell Automation · Allen-Bradley · Rockwell Software · ABB · SIEMENS · GE · YOKOGAWA · Schneider Electric · MITSUBISHI ELECTRIC · KUKA · Honeywell · Johnson Controls

# Demo

# High Level Roadmap

**Design Partnership Q1 '20** → **V 1.0 Beta** → **ICS V 1.0**

## v1.0 Protocols…

➢ **Most Prevalent**
- S7 Comm / Plus
- Profinet
- Ethernet IP
- BACnet
- Modbus TCP
- OPC Suite
- DNP3
- MSS / GOOSE
- IEC 104
- CC Link IE
- MQTT
- Omron Fins
- EtherCAT
- Nigara Fox
- Ethernet Powerlink

➢ **Design Partnership**
- *MelsecNet*
- *PCCC*
- …

➢ **IT Protocols**
- CDP
- LLDP
- TFTP / FTP
- HTTP / HTTPS
- Telnet
- SMB/CIFS

## v1.0 Major Vendors…

➢ **Most Prevalent**
- Siemens
- Rockwell Automation
- Schneider Electric
- ABB
- GE
- Kuka
- Johnson Control

➢ **Design Partnership**
- *Mitsubishi Electric*
- …

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# Qualys Industrial Control Security Roadmap

**Compliance**

**Threat Detection**

**Process Integrity**

**Zones & Conduits Access Controls**

# Thank You

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